इंटरनेट मानक

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IS 9183 (1979): Suction Tube, Magill's Pattern [MHD 1: Surgical Instruments]

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IS : 9183 - 1979

Indian Standard

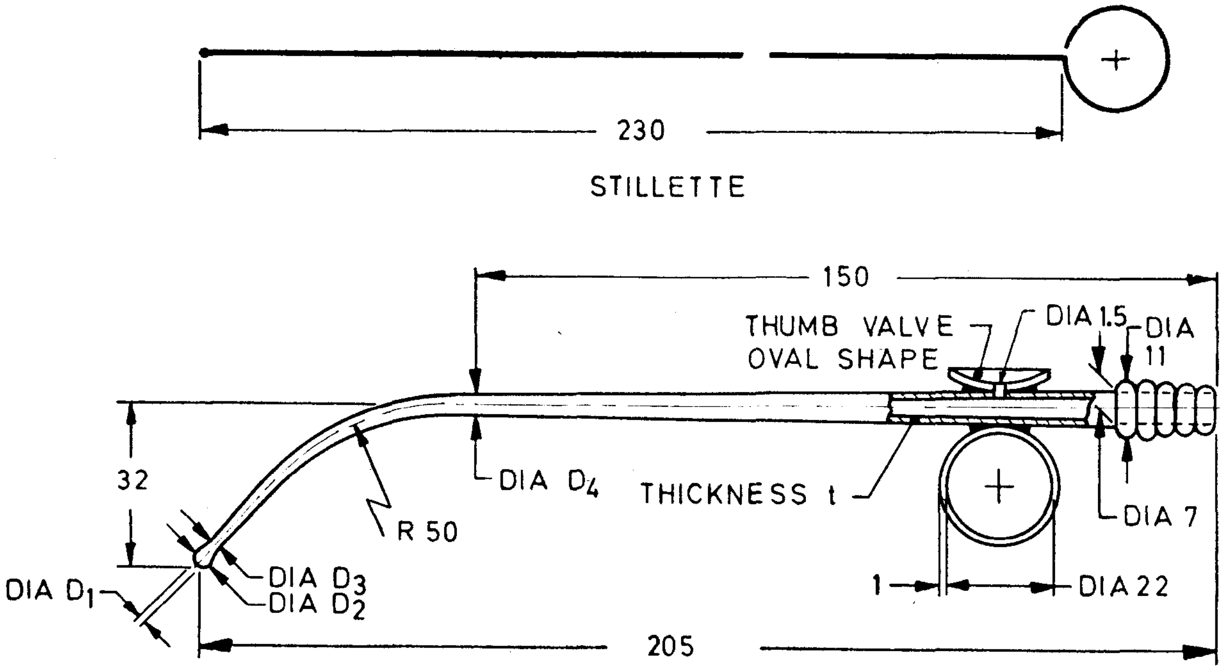
(Reaffirmed 1998)

SPECIFICATION FOR SUCTION TUBE, MAGILL'S PATTERN

Surgical Instruments Sectional Committee, CPDC 11; Plastics Surgery Instruments Subcommittee, CPDC 11 : 8 [Ref : Doc : CPDC 11 (1184)]

1. Scope — Dimensional and other requirements for three sizes of Magill's pattern suction tube used in plastic surgery.

2. Size, Shape and dimensions — As shown in Fig. 1.



Size	D_1 ±0·01	D_2	D_3	D_4	*Thickness* t
Small	1·2	3·0	2·0	4·0	0·315
Medium	1·5	3·5	2·5	5·0	0·40
Large	2·0	4·0	3·0	5·5	0·45

All dimensions in millimetres.

FIG. 1 TUBE, SUCTION, MAGILL'S PATTERN

2.1 Deviation of ±2·5 percent shall be allowed on all dimensions except where specified in Fig. 1.

3. Material

3.1 *Suction Tube* — Stainless steel conforming to Designation 04Cr18Ni11 or 07Cr18Ni9 of IS : 1570 (Part V)-1972 'Schedules for wrought steels: Part V Stainless and heat-resisting steels (*first revision*)' or conforming to designation 04Cr18Ni10 or 07Cr18Ni9 of IS : 6911-1972 'Specification for stainless steel plate, sheet and strip'.

3.2 *Stillette* — Stainless steel wire (*see* IS : 6528-1972 Specification for stainless steel wire).

4. Workmanship and Finish

4.1 The suction tube shall be finished smooth from outside and inside and shall be free from pits, tool marks, burrs and foreign matter. All sharp edges including the suction end shall be suitably rounded off.

Adopted 29 June 1979

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4.2 The suction tube shall be pushed well into the cavity of the hub and securely swaged. The tube and the hub shall be concentric and well aligned.

4.3 The thumb valve shall have a smooth concave surface with a hole in its centre communicating with the suction tube, to facilitate its closure with the help of thumb. The finger ring and the thumb valve shall be soundly brazed with the tube by silver brazing as shown in Fig. 1. Brazing shall be neat and clean.

4.4 The stillette shall have its free end in the form of a bead of diameter slightly lesser than the inner diameter of tube so that it can slide smoothly in the tube.

4.5 The suction tube shall be polished bright and passivated.

5. Tests

5.1 *Corrosion Resistance* — Test the suction tube in accordance with IS : 7531-1975 'Method for boiling and autoclaving test for corrosion resistance of stainless steel surgical instruments'. After the test, the tube shall show no sign of corrosion.

5.2 *Leakage Test* — Connect the suction tube to an air pump and block its free end and the thumb valve effectively by suitable means. Now start the air pump and exert a pressure of 300 kN/m^2 (approximately 3 kgf/cm^2) for 10 seconds. Check for any leakage by dipping the pressurized suction tube into water and observing for any possible bubbles. There shall be no leakage during this test.

5.3 *Pull Test* — Hold the suction tube vertically in a suitable vice along the side of the finger loop. Apply a load of 30 N (3 kgf approximately) for 3 minutes each on the thumb rest and the finger ring. There shall be no damage at the joint.

6. Marking — The suction tube shall be legibly and indelibly marked at a suitable place with the manufacturer's name, initials or recognized trade-mark.

6.1 *ISI Certification Marking* — Details available with the Indian Standards Institution.

7. Packing — As agreed to between the purchaser and the supplier.

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